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MAR 19
F.G.E., LTD.

Fewell Geotechnical Engineering, Ltd.
99-960A Iwaena Street, - Aiea, Hawaii 96701 • (808) 488-1979

FOR REFERENCE
not to be taken from this room

File 265-10
November 10, 1981

Gentry-Waipio, Ltd.
94-539 Puahi Street
Waipahu, Hawaii 96797

Attention: Mr. James C. White

Subject: FINAL GRADING REPORT
Parcel "q"
Gentry-Waipio Development
Waipio, Oahu, Hawaii

Gentlemen:

At your request, we have provided testing and observation services for the mass grading of Parcel "q" in Waipio, Oahu, Hawaii.

Work started with a general clearing and stripping of the entire construction area.

Actual grading operations then commenced using Caterpillar 631 and 621 scrapers and D-9 dozers to cut, haul, and spread the material. Compaction of the materials was accomplished using a Hyster C451.

Fill material was generated during the on-site excavation operations. The material consists of low plasticity Clayey Silt (ML) and was placed and compacted in uniform lifts of 6 to 8 inches at moisture contents generally within 4 percent of the optimum moisture content as determined by ASTM D1557.

Field density tests performed by our firm indicated that adequate compaction was being obtained. These tests, upon which acceptance is based, show values in excess of 90 percent relative compaction as determined by the above-referenced tests.

MUNICIPAL REFERENCE RECORDS CENTER
City and County of Honolulu
City Hall Annex, 558 S. King Street
Honolulu, Hawaii 96813

COPY

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In summary, the mass grading for the Parcel "q" has been completed in general accordance with the Grading Ordinances of the City and County of Honolulu. The slopes should be grassed as soon as practicable to minimize erosion.

A Site Plan, Figure 1, is included to indicate the field density test locations. The results of the laboratory and field tests performed by our firm are summarized in Tables I and II.

Should you have any questions regarding this matter, please contact us at your convenience.

Respectfully submitted,

FEWELL GEOTECHNICAL ENGINEERING, LTD.


Alan J. Shimamoto, P.E.
Project Engineer

AJS:clw

Enclosures

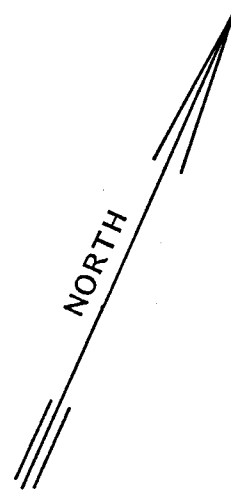
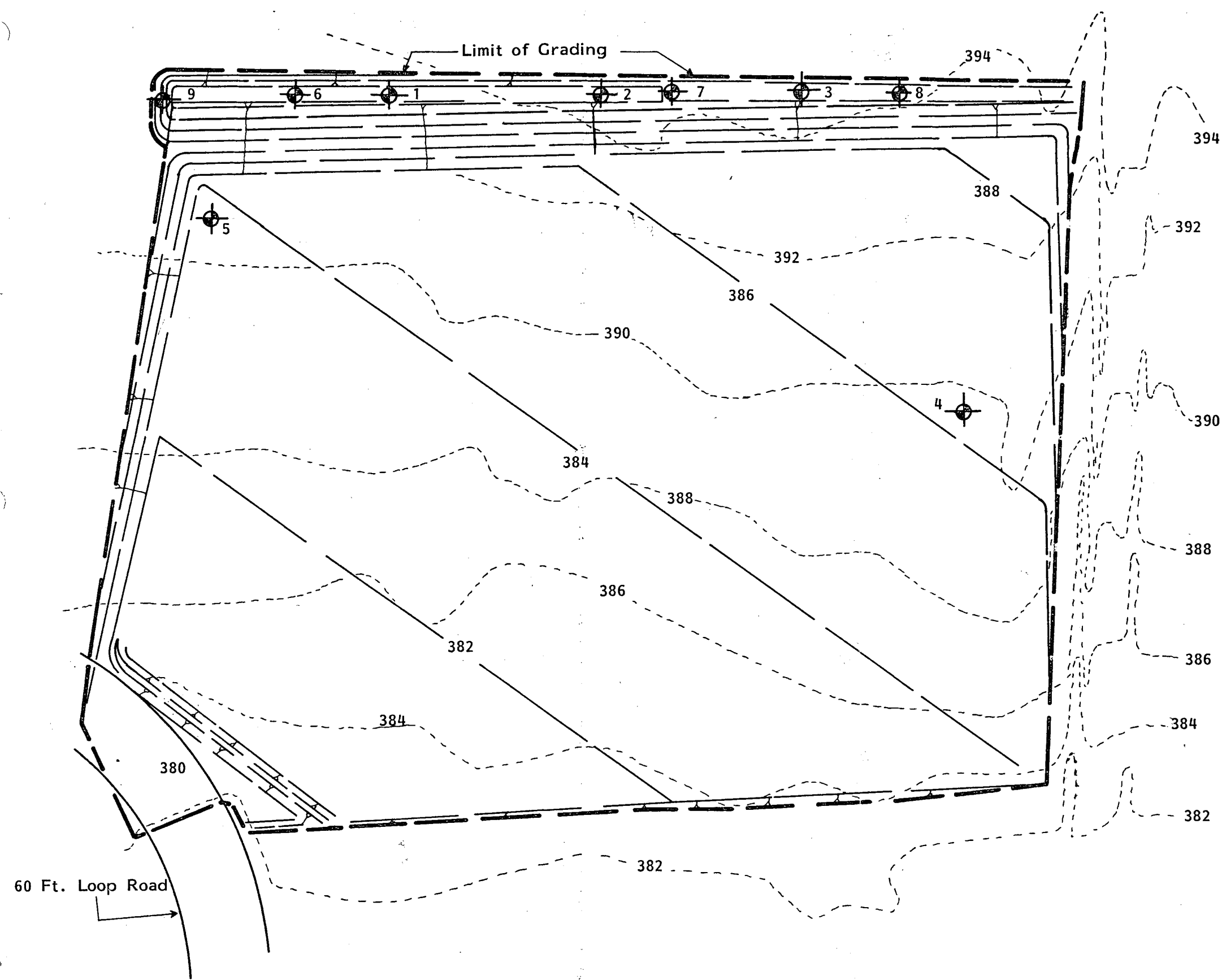
copy to: Community Planning, Inc. (Attention: Mr. Robert Sarae)

TABLE I

<u>Sample Designation</u>	<u>Sample Description</u>	<u>Maximum Dry Density (pcf)</u>	<u>Optimum Moisture Content %</u>
A	Reddish Brown Clayey SILT (ML)	103	23
B	Reddish Brown Clayey SILT (ML)	105	25

TABLE II
SUMMARY OF FIELD DENSITY TEST RESULTS

<u>Test No.</u>	<u>Date</u> 1981	<u>Location</u>	<u>Elevation</u>	<u>Field Density</u> (pcf)	<u>Moisture Content</u> (%)	<u>Material Type</u>	<u>Compaction</u> (%)
1	9-1	Top of Berm	FG	97	26	B	92
2	9-1	Top of Berm	FG	98	25	B	93
3	9-1	Top of Berm	FG	95	23	B	90
4	9-1	Park Site East	FG	100	25	B	95
5	9-1	Park Site West	FG	100	23	B	95
6	9-15	Top of Berm	FG-2.5'	102	24	B	97
7	9-15	Top of Berm	FG-2.0'	100	24	B	95
8	9-15	Top of Berm	FG-2.0'	105	23	B	100
9	9-15	Berm Slope at West End	FG-5.0'	100	26	B	95



LEGEND:

⊕ FGE Field Density Test Location

SCALE 1"=80'

Ref: Grading Plan By
Community Planning Inc.

FEWELL GEOTECHNICAL ENGINEERING, LTD.

GENTRY WAIPIO - PARCEL "q"
WAIPIO, OAHU, HAWAII

SITE AND FIELD DENSITY LOCATION PLAN

FILE 265-10

NOVEMBER 1981

FIGURE 1

Run
Log
Card
Folder
file

SR-79

301-22-0477

Date: October 18, 1983

TO: Gentry Waipio, Inc.
94-770 Kamehameha Highway
Waipahu, Hawaii 96797

Gentlemen:

Re: GENTRY WAIPIO - PARCEL "Q"

TMK: 9-4-06: POR. 13

We are sending you herewith ☒

Under separate cover ☐

No. of Copies	Description
1	Approved Grading Permit No. 307

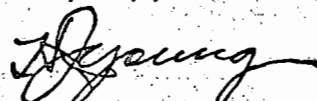
For:

☒ Your information and use ☐ Approval
☐ Review and comment ☐ Signature
☐ As requested ☐

Remarks:

The date of our approval, September 21, 1983, is the closing date of the permit. The bond filed with the City for the grading work shall remain in effect for a period of one year after the closing date; therefore, it will be returned to you on September 21, 1984.

Very truly yours,



For MICHAEL J. CHUN
Director and Chief Engineer

PS: go
Attach.
cc: Community Planning, Inc. w/attach.
Seaboard Surety Company w/attach.
bcc: Service Engineer w/original

PERMIT NO. 307

DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF HONOLULU

DEPT. 24 ENG. 12

06/30/82 T80011 TRAP 104168

ROUTE 245232 C41

Rec. 1/3/83 gmf

To the Director and Chief Engineer
Department of Public Works
City and County of Honolulu

APPLICATION AND PERMIT FOR

GRADING

Application is hereby made to do grading work in conformity with Chapter 23, R. O. 1978, As Amended, as follows:

TAX MAP KEY					ENG. SOILS REPORT	EST. QUANTITY	PERMIT FEE	FEE RECEIVED
ZONE	SEC.	PLAT	PAR.	LOT	DATE FILED:	EXCAV. CU.YD.	\$	\$
9	4	06	Por. 13			grassy only -0-	7.50	7.50
								BY: <u>[Signature]</u> DATE: 6/30/82

Waipio, EWA

Located at Gentry Waipio - Parcel "Q"

☒ Temporary Erosion Control

Procedures on File W/G.P. No. 9825

Lot Area 7.6 Sq. Ft. 7.6 Acres

☒ Bond on file W/G.P. No. 9825

Fill Material

☒ Dept. of Public Works to Inspect

Description of Soil

Existing Ground Brown Soil

☐ Bldg. Dept. to Inspect

Estimated Starting Date 7/15/82 19 82 Estimated Completion Date August 15, 19 82

Remarks/Purpose of Work: To Grass Only. continuation of G.P. No. 9825.

Owner Gentry Waipio J/V Address 94-539 Puahi St., Waipahu, HI Phone 671-5484

Engineer Community Planning, Inc. Address 700 Bishop St., Suite 608, Hon. Phone 521-7493

Contractor Gentry Pacific, Ltd. Address 94-539 Puahi St., Waipahu, HI Phone 671-5484

Date of Application June 29, 19 82 Permittee James C. White, Gentry Waipio

Application Reviewed By SERVICE ENGINEER Date June 28, 19 82

To the Applicant:

Permission is hereby given to do the above work according to the conditions hereon and according to the approved plans and specifications pertaining thereto, subject to compliance with Chapter 23, R. O. 1978, As Amended.

Remarks:

Date 6/30 19 82

Issued By:

[Signature]
FOR DIRECTOR AND CHIEF ENGINEER, DEPT. OF PUBLIC WORKS

Contractor shall notify this office **two working days** before commencing any work and arrange for necessary inspectional services.

THIS PERMIT WILL EXPIRE UNLESS WORK IS STARTED WITHIN 90 DAYS FROM DATE OF ISSUE; OR IF WORK IS SUSPENDED OR ABANDONED FOR 60 DAYS OR MORE AFTER WORK IS BEGUN; OR ONE YEAR FROM DATE OF ISSUE

I hereby certify that all work as requested above has been completed in conformity with Chapter 23, R. O. 1978, As Amended and in accordance with the approved plans and specifications.

Date 9/19 19 83

Permittee [Signature]

Date 9/21 19 83

Approved By: Richard K. Papa

Final Soils Report

Date Filed 19

July, 1982 - Owner is waiting for completion of "Major Roadways & Drainage System - Ph. 3" so that a watering system can be hooked up to finish grassing.

Aug 1982 - Road construction leading to this area going on.

Sept. 1982 - " " " " " " " " " "

Oct. 1982 - " " " " " " " " " "

Nov. 1982 - No work done.

Dec. 1982 - Randy Ohye of Gentry-Warpio told me that plans for this area are being drawn-up, which will include sprinkler system to aid in grassing & landscaping.

Jan. 1983 - Plans still not completed. gmf.

Feb. 1983 - " " " " " " " " " "

March 1983 - " " " " " " " " " "

April 18, 1983 - Begin grading of swale. Work being done by Grader Sub-contractors of Royal Contracting.

May 3, 1983 - Area being watered to prevent dust from blowing.

May 27, 1983 - Construct temporary earth berm.

June 15, 1983 - Royal Contracting has set their water tank which is used to fill their water trucks for dust control, upon this park site.

July. 1983 - No work done

Aug 11, 1983 - Sprinkler system being installed.

Sept. 2, 1983 - Begin grass seed & mulch park site.

Sept. 19, 1983 - Grading & grassing complete. J. Gamauch.



COMMUNITY PLANNING INC.

RECEIVED
DIV. OF ENGINEERING
OCT 11 10 45 AM '83

PLANNING & URBAN DESIGN
ENGINEERING
LAND SURVEYING
ENVIRONMENTAL STUDIES

October 11, 1983

83-05699

ENGR

Dr. Michael Chun
Director and Chief Engineer
Department of Public Works
City and County of Honolulu
Honolulu, Hawaii 96813

Dear Dr. Chun:

Subject: Grading Certification
Gentry Waipio Parcel "q", GP307
Waipio, Ewa, Oahu, Hawaii
Tax Map Key: 9-4-06: Por. of 13

Enclosed is a copy of the final grading report by FGE, Ltd.
dated November 10, 1981.

Grading for the subject project is completed and in
substantial conformance with the approved plans dated June 8,
1981.

Very truly yours,

COMMUNITY PLANNING, INC.

Bernard P. Kea
Bernard P. Kea

BPK:RS:do

Enclosure

cc: R. Ouye
Royal Contracting Co., Ltd.

RECEIVED
DEPT. OF PUBLIC WORKS
OCT 11 10 30 AM '83